City of Sioux Falls

PUBLIC WORKS

Water Purification Plant

P.O. Box 7402

2100 North Minnesota Avenue

Sioux Falls, SD 57117-7402

website: www.siouxfalls.org/water

ECRWSS POSTAL CUSTOMER

The City of Sioux Falls has tested its drinking water for several of these compounds. In July 2016, PFOS plus three additional PFASs were detected in the treated drinking water. The highest level detected was 5.8 parts per trillion, far less than the new health advisory level. Additional monthly testing has shown our water to be free of any of

substances (PFASs). In May 2016, the ction Agency (EPA) set health advisory

Comprehensive Water Quality Monitoring

Protecting Water at the Source

Department of Environment and Natural Resources waters for contamination and has a long history of providing safe drinking water to our customers. Yo may view a copy of the report at the office of the SDDENR in Pierre. The City utilizes the Big Sioux River, the Big Sioux drinking water are moderately susceptible to

Questions?

If you have any questions about your water,

367-8131 367-8131 Water Quality Concerns. Water Conservation/ Water Turn On/Off. General Questions Billing Questions Lawn Watering

For additional information please visit our

Drinking Water and Your Health

order to ensure that tap water is safe to drink, the hes limits for contaminants in bottled water provided by public water

harmful to humans if consumed in excess. Primary Drinking Water Standards

include MCLs for contaminants that affect health treatment requirements

acceptance rather than Secondary Drinking Water Standards deal with aesthetic qualities, such as taste deal with aesthetic

obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791. What If I Have Special Health Needs?

Some people may be more vulnerable to contaminants seek advice about drinking water from re providers. EPA/Centers for Disease nfants can be particularly at risk from infections. The

Sioux Falls

Tests Your

Drinking

Water

PRSRT STD

U.S. Postage

Permit No. 1148 Sioux Falls, SD

Keep It Safe

(SDDENR) completed a Source Water Assessment to around these sources. The 1996 Amendments to the

Substances that may be present are divided into

Plumbing Retrofit Program

CITY OF SIOUX FALLS 2016 WATER QUALITY DATA

INORGANIC CHEMICALS								
PARAMETER (UNIT)	MCLG	MCL	LEVEL FOUND	RANGE	POSSIBLE SOURCE OF SUBSTANCE			
Antimony (PPB)	6	6	1		Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder			
Barium (PPM)	2	2	0.024		Erosion of natural deposits			
Chromium (PPB)	100	100	1		Erosion of natural deposits			
Fluoride (PPM)	4	4	0.74	0.35-0.74	Additive to promote strong teeth			
Nitrate (PPM)	10	10	1.31		Runoff from fertilizer, leaching from septic tanks, sewage, naturally present in the environment			
Selenium (PPB)	50	50	1		Petroleum and metal refineries, natural deposits			

LEAD AND COPPER (SAMPLES COLLECTED IN 2016)									
PARAMETER (UNIT)	MCLG	ACTION LEVEL	90% OF VALUES LESS THAN	NO. OF SITES ABOVE AL	POSSIBLE SOURCE OF SUBSTANCE				
Lead (PPB)	0	15	3.0	0 out of 50	Corrosion of household plumbing systems				
Copper (PPM)	1.3	1.3	0.097	0 out of 50	Corrosion of household plumbing systems				

DISINFECTANTS/DISINFECTION BY-PRODUCTS									
PARAMETER (UNIT)	MRDLG	MCL	LEVEL FOUND	RANGE	POSSIBLE SOURCE OF SUBSTANCE				
Total Chlorine (PPM)	4	4.0	3.4	0.2-3.4	Water additive used to control microbes				
TTHMs (Total Trihalomethanes) (PPB)	NA	80	37.2	24-63	By-product of drinking water chlorination				
HAA (Haloacetic Acids) (PPB)	NA	60	15.4	6.9–26	By-product of drinking water chlorination				

MICROBIOLOGICAL								
PARAMETER (UNIT)	MCLG	MCL	MAXIMUM LEVEL FOUND	POSSIBLE SOURCE OF SUBSTANCE				
Total Coliform Bacteria (present/absence)	Present in no samples	5% or more of samples per month are positive	Present in 0.8% of samples in one month	Naturally present in the environment				
Turbidity (NTU)	NA	Determined by treatment technology	100% of samples were within limits Highest = 0.09	Soil runoff				

ORGANIC CARBON									
PARAMETER (UNIT)	MCLG	MCL	REMOVAL RATIO	RANGE	POSSIBLE SOURCE OF SUBSTANCE				
Total Organic Carbon	NA	TT	2.08	1.0-2.67	Naturally present in the environment				

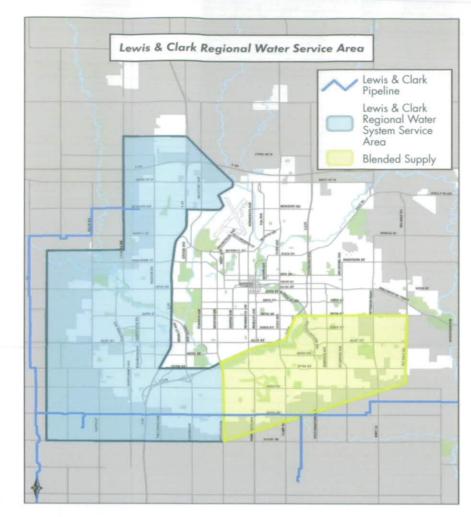
RADIOLOGICAL								
PARAMETER (UNIT)	MCLG	MCL	LEVEL FOUND	YEAR SAMPLED	POSSIBLE SOURCE OF SUBSTANCE			
Beta/Photon Emitters (pCi/L)	0	50	4.8	2015	Decay of natural and man-made deposits			

UNREGULATED CHEMICALS									
PARAMETER (UNIT)	MCLG	MCL	LEVEL FOUND	YEAR SAMPLED	POSSIBLE SOURCE OF SUBSTANCE				
Chloroform (PPB)	Unregulated		6.3	2015	By-product of drinking water chlorination				
Bromadichloromethane (PPB)	Unregulated		8.2	2015	By-product of drinking water chlorination				
Dibromochloromethane (PPB)	bromochloromethane (PPB) Unregulated		7.7	2015	By-product of drinking water chlorination				
Bromoform (PPB)	Unregi		1.3	2015	By-product of drinking water chlorination				

LEWIS & CLARK REGIONAL WATER SYSTEM WATER QUALITY DATA							
PARAMETER (UNIT)	MCLG	MCL	LEVEL FOUND	RANGE	POSSIBLE SOURCE OF SUBSTANCE		
Fluoride (PPM)	4	4	1.11	0.68-1.11	Additive to promote strong teeth		
Nitrate (PPM)	10	10	0.6	u - Tanada in the same	Runoff from fertilizer, leaching from septic tanks, sewage, naturally present in the environment		

Additional water quality data from the City of Sioux Falls and the Lewis & Clark system may be found on the City's website at www.siouxfalls.org/water

No health-based drinking water quality violations were recorded in 2016.



Finding Your Water Quality

This water quality report provides information for all water customers whose drinking water is provided by the Sioux Falls Water Division. Our water comes from two different sources—the water plant owned and operated by the City and water purchased from the Lewis and Clark Regional Water System. You can use the map shown above to determine where your water comes from and what water quality data applies to your drinking water.

Lead in Drinking Water

Sioux Falls Water Division has been testing for lead and copper in accordance with the EPA's Lead and Copper Rule since 1992 and has consistently tested below the Action Level established in the rule. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Sioux Falls Water Division is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. You may call the Water Quality Concern Line at 373-6950 to request a lead-in-water sampling kit. In addition, information on lead in drinking water, testing methods, and steps you take to minimize exposure is available from the Safe Drinking Water Hotline: (800) 426-4791 or at www.epa.gov/safewater/lead.

Our Results

Providing an average of 20.8 million gallons of water a day for use in homes, schools, hospitals, and businesses that meets all required water quality standards is the accomplishment of our expertly trained lab analysts and state-certified water treatment operators. Our commitment to exceptional water quality is reflected in the number of tests we perform during and after the treatment process. More than 170,000 analyses on more than 250 substances were conducted during 2016 to ensure reliable results and safe drinking water. This number far exceeds the minimum testing requirements. In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Even the highest levels detected were well below the required limits. We listed in this report only the substances that were detected.

Useful Drinking Water Terms and Definitions:

AL (Action Level): The concentration of a substance which, if exceeded, triggers treatment or other requirements that a water system must follow.

MCLG (Maximum Contaminant Level Goal): The level of a substance below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

MCL (Maximum Contaminant Level): The highest amount of a substance allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

MRDL (Maximum Residual Disinfectant Level): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG (Maximum Residual Disinfectant Level Goal): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.

PPM (Parts Per Million): Also referred to as milligrams per liter.

PPB (Parts Per Billion): Also referred to as micrograms per liter.

NTU (Nephelometric Turbidity Units): Cloudiness of the water.

NA (Not Applicable): Data not available.

BDL (Below Detection Level): The substance could not be found at the minimum amount that can be reliable detected.

GPG (Grains Per Gallon): Unit of water hardness.

Additional Parameters of Interest

PARAMETER (UNITS)	SIOUX FALLS AVERAGE	LEWIS & CLARK AVERAGE
Alkalinity (PPM)	44	64
Calcium Hardness (as CaCO3) (PPM)	116	98
Total Hardness (as CaCO3) (PPM)	238	172
Iron (PPM)	<0.03	< 0.03
Manganese (PPM)	<0.05	< 0.05
pH (units)	8.6	8.5
Sodium (PPM)	26.1	76
Chloride (PPM)	30	19
Chlorate (PPB)	BDL	120-560
Sulfate (PPM)	200	273
Water softener setting, total hardness (GPG)	14	10